

# Medical Device Clinical Report

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## Safe AQ UG

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Product Name: Safe AQ UG meter, Safe AQ UG blood glucose test strip

Manufacturer: Changsha Sinocare Inc.

**Clinical Test Time: June, 2011 to September, 2011**

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Clinical Institution: Hsiang-ya third hospital

Hunan brain department hospital

Principle Investigator: Yuan Hong

Responsible Person: Huang Zhijun, Tan Benteng

**Contact information of sponsor: Zhang Ting**

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# 1. Introduction

## 1.1 Background

Safe AQ UG blood glucose and uric acid meter can test different sample with different strip. The meter can be used with Safe AQ UG blood glucose test strip to quantitatively test glucose concentration in fresh whole blood sample. The product can be used for diabetes control in clinical settings.

## 1.2 Scope

Safe AQ UG blood glucose and uric acid meter used with Safe AQ UG blood glucose test strip to test glucose in fresh whole blood sample. The product use bioelectrochemistry method as operation principle. The special chemical will react with blood sample and produce current. The current will transfer to test result and displayed on meter. The product need less blood sample and less test time.

Trial scope: Glucose test in capillary whole blood and venous whole blood.

## 1.3 Test Principle

A blood glucose test is based on measurement of electrical current caused by the reaction of glucose or uric acid with the reagents (special chemicals) on the electrode of the strip. The blood or control solution sample is drawn into the tip of the test strip through capillary action. Glucose or uric acid in the sample reacts with the special chemicals and generates electrons, which produce electrical current. The meter measures the electrical current and calculates the glucose or uric acid result. The glucose results are displayed by your meter as mg/dL or mmol/L.



## 1.4 Marketed product application

Blood glucose meter being marketed on 20 centuries 80s. It been acceptable by home and hospital due to its portable, accuracy and easy operation. Blood glucose meter can be used for test blood glucose for diabetes patients in clinical settings.

At present, most hospital use Roche, J&J blood glucose meter. With development of economy and life quality, market for blood glucose will be expanding.

### 1.5 Intended Use

Safe AQ UG blood glucose and uric acid meter used with Safe AQ UG blood glucose test strip to test glucose in fresh whole blood sample. The product can be used for diabetes control in clinical settings.

### 1.6 Purpose

To evaluate accuracy and practicable for Safe AQ UG blood glucose and uric acid meter and Safe AQ UG blood glucose test strip according to Medical Device Clinical Trial Regulation, In Vitro Diagnostic Reagent Clinical Research Technical Guidance.

### 1.7 Overall Design

#### 1.7.1 Test overall design

This clinical trial recruit subjects with low glucose concentration, normal glucose concentration, high glucose concentration, fasting and after meal subject, at least 200 subjects needed (at least 100 subjects for each hospital). The trial use Safe AQ UG system and J&J system test capillary whole blood glucose test and compare the test result. Then collect venous blood sample, use Safe AQ UG system and hospital regular tool test venous blood sample and compare the test result.

95% of bias should meet below requirement:

Test Range	Bias
$\leq 4.2\text{mmol/L}$ ( $\leq 75\text{ mg/dL}$ )	$\pm 0.83\text{mmol/L}$ ( $\pm 15\text{mg/dL}$ )
$> 4.2\text{mmol/L}$ ( $> 75\text{ mg/dL}$ )	$\pm 20\%$

#### 1.7.2 Quality Control Method

The participating researchers must undergo a unified training and unify the record way and judgment criteria. The entire test process must be carried out under the strict operation. All observations and findings in the test must be verified to ensure data reliability and to ensure that all the conclusions of the test are derived from objective and accurate raw data. In the test and data processing stage, there should be the appropriate data management measures.

#### 1.7.3 Feasibility Analysis

The product has already performed performance analysis before clinical trial and test result is good. So the possibility of successful is high. But if the sample is not sufficient or test result shows that performance of this product can not meet requirement, the clinical trial may be failed.

## 2. General Information

Enroll at least 200 subjects for 2 hospital, at least 100 subjects for each hospital. Choose low concentration, normal concentration, high concentration, fasting and after meal samples.

### 2.1 Inclusion Criteria

- (1) Volunteer to test glucose and willing to signed informed consent;
- (2) Age  $\geq 18$ , no limit for gender

### 2.2 Exclusion Criteria

Investigator consider who is inappropriate to join in test.

### 3. Quit Criteria

- (1) Serious adverse event on subjects;
- (2) Subjects withdraw informed consent;
- (3) Deviation protocol

### 4. Collection, storage, transport method for sample

Collect fingertip capillary blood sample and venous blood sample (collect time between capillary blood and venous blood not exceeding 10 minutes). Storage at 4~8°C. Perform venous test within 4 hours.

### 5. Sample concentration

Sample concentration should meet below criteria:

Sample	Concentration/[mmol/L(mg/dL)]
4	<2.8(<50)
16	2.8~4.3(50~80)
20	4.4~6.7(81~120)
30	6.7~11.1(121~200)
16	11.2~16.6(201~300)

10	16.7~22.2(301~400)
4	>22.2(>400)

### 3. Test method

#### 3.1. Test product: provide by Changsha Sinocare Inc.

Product name: Safe AQ UG blood glucose and uric acid meter, Safe AQ UG blood glucose strip

Strip Lot: 20110616

Strip Code: C22;

Main technical parameter:

Accuracy: when concentration  $\leq 4.2\text{mmol/L}$ , bias within  $\pm 0.83\text{mmol/L}$ ;

when concentration  $> 4.2\text{mmol/L}$ , bias within  $\pm 20\%$

Sample type: capillary or venous whole blood

Sample size:  $0.6\mu\text{L}$

Test range:  $1.1\text{mmol/L} \sim 33.3\text{mmol/L}$  ( $20\text{mg/dl} \sim 600\text{mg/dl}$ )

Code: by code chip

Test temperature:  $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$

Test humidity: less than 80%

#### 3.2 Test method

- a. Equilibrate meter and strip in test temperature condition at least 30 minutes before test. Do not hold strip socket when testing.
- b. Insert code chip.
- c. Take 1 strip out.
- d. Insert strip into meter, meter turned on, drop symbol flashing which means can apply samples on strip.
- e. Use lancing device to collect capillary sample or collect venous sample.
- f. Put strip close blood sample, sample will be absorbed into reaction chamber in strip. Meter will beep after sample is enough, test begin.
- g. After count down finished, test result will displayed on screen with unit.

### 3.3 Comparison Product:

1) Comparison product for test venous blood

Hsiang-ya third hospital

Type: Hitachi 7600 fully automatic biochemical analyzer

Manufacturer: Japan Hitachi Inc.

Hunan brain department hospital:

Type: SIEMENS DimensionRxLMax fully automatic biochemical analyzer;

Manufacturer: Siemens Healthcare Diagnostics Inc.

2) Comparison product for test capillary blood

Meter: SQM07A4QT、RKV4987FT

Approve Number: 沪食药监械(准)字 2009 第 2400017 号

Strip: Lot: 3088677

Approve Number: 国食药监械(进)字 2010 第 2401197 号

Shelf life: 24 months

## 4. Acceptance Criteria:

95% bias should meet below requirement:

When concentration  $\leq 4.2\text{mmol/L}$ , bias should within  $\pm 0.83\text{mmol/L}$ ;

When concentration  $> 4.2\text{mmol/L}$  时, bias should within  $\pm 20\%$

## 5. Analysis

### 5.1 Subject information

Total 116 subjects. 90 subjects from clinical settings and 26 samples in from clinical lab. All subjects meet inclusion criteria.

Table 1. Sample size for capillary blood and venous blood

Concentration /[mmol/L(mg/dL)]	Capillary Sample	Venous Sample
<2.8(<50)	9	8
2.8~4.3(50~80)	17	36
4.4~6.7(81~120)	45	55

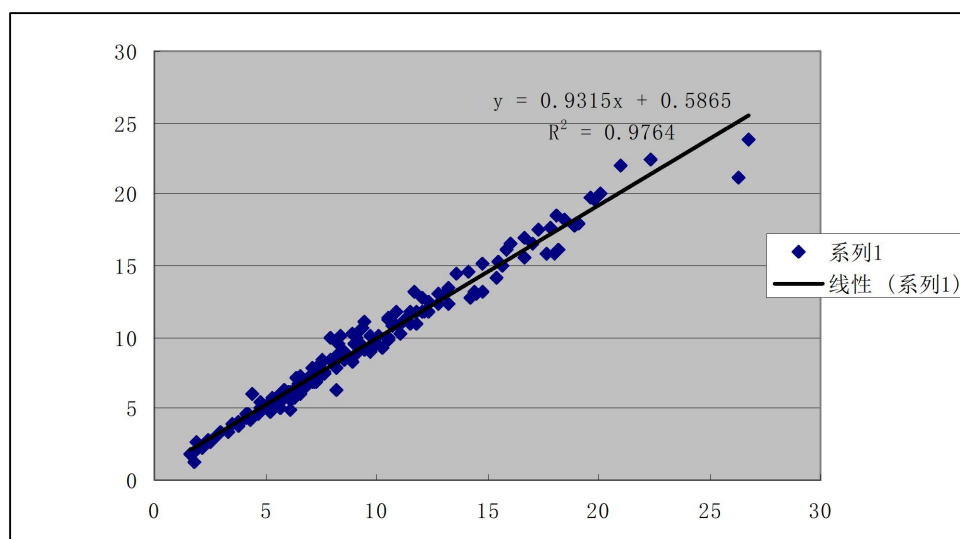
6.7~11.1(121~200)	66	59
11.2~16.6(201~300)	30	33
16.7~22.2(301~400)	16	20
>22.2(>400)	3	10
Total	186	221

## 5.2 Test Result Analysis

### 5.2.1 Capillary blood accuracy

Test range for Safe AQ UG and J&J product are 1.1-33.3 mmol/L. Regression equation for Safe AQ UG result (Y) and J&J product (X):  $y=0.9315x+0.5865$ ,  $R^2=0.9764$ ,  $R=0.9881$ .

Graph 1-Safe AQ UG Capillary Test Result



**Table 2 - Bias of capillary sample when concentration <4.2mmol/L**

Within $\pm 0.28$ mmol/L	Within $\pm 0.56$ mmol/L	Within $\pm 0.83$ mmol/L
13/19 (68.4%)	19/19 (100%)	19/19 (100%)

**Table 3- Bias of capillary sample when concentration  $\geq 4.2$ mmol/L**

Within $\pm 5\%$	Within $\pm 10\%$	Within $\pm 15\%$	Within $\pm 20\%$
103/167 (61.7%)	142/167 (85%)	158/167 (94.6%)	162/167 (97%)

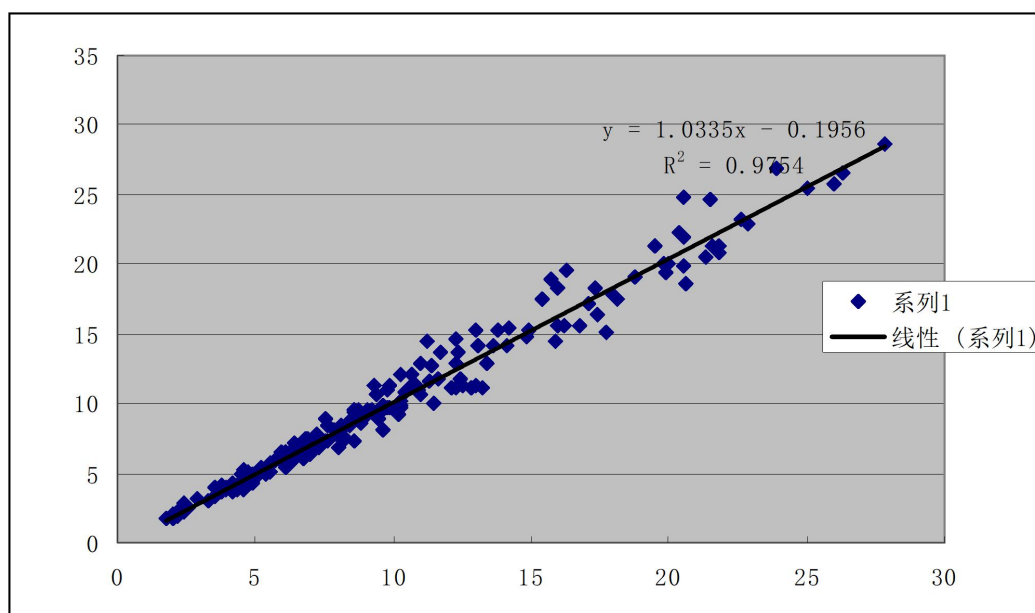
From above data we can see that capillary test result meet acceptance criterial. When concentration <4.2mmol/L, all bias within  $\pm 20\%$ ; when concentration  $\geq 4.2$ mmol/L, 97% bias within  $\pm 20\%$ .



## 2.2 Venous blood accuracy

Test range for Safe AQ UG and J&J product are 1.1-33.3 mmol/L and 0-27.8 mmol/L. Regression equation for Safe AQ UG result (Y) and J&J product (X):  $y=1.0335x-0.1956$ ,  $R^2=0.9764$ ,  $R=0.9876$ .

Graph 2-Safe AQ UG Venous Test Result



**Table 4 - Bias of venous sample when concentration <4.2mmol/L**

Within $\pm 0.28\text{mmol/L}$	Within $\pm 0.56\text{mmol/L}$	Within $\pm 0.83\text{mmol/L}$
18/34 (52.9%)	32/34 (94.1%)	34/34 (100%)

**Table 5- Bias of venous sample when concentration  $\geq 4.2\text{mmol/L}$**

Within $\pm 5\%$	Within $\pm 10\%$	Within $\pm 15\%$	Within $\pm 20\%$
92/187 (49.2%)	140/187 (74.9%)	171/187 (91.4%)	186/187 (99.5%)

From above data we can see that capillary test result meet acceptance criterial. When concentration <4.2mmol/L, all bias within  $\pm 20\%$ ; when concentration  $\geq 4.2\text{mmol/L}$ , 99.5% bias within  $\pm 20\%$ .

### 5.2.3. Clinical Result Analysis

For capillary blood sample, when concentration <4.2mmol/L, 100% of Safe AQ UG bias within  $\pm 0.83\text{mmol/L}$ ; When concentration  $\geq 4.2\text{mmol/L}$ , 97% of Safe AQ UG bias within  $\pm 20\%$ , all meet acceptance criteria which means the product is equivalent with marketed product.

For venous blood sample, when concentration <4.2mmol/L, 100% of Safe AQ UG bias within  $\pm$

0.83mmol/L; When concentration  $\geq 4.2\text{mmol/L}$ , 99.5% of Safe AQ UG bias within  $\pm 20\%$ , all meet acceptance criteria.

#### 5.2.4. Conclusion

Safe AQ blood glucose and uric acid meter and blood glucose test strip has good clinical performance.

### 6. Clinical Trial Staff Information:

Staff	Title	Department	Responsibility
Yuan Hong	Professor	Hsiang-ya third hospital clinical pharmacology center	Principle Investigator
Yang Guoping	Associate Professor	Hsiang-ya third hospital clinical pharmacology center	Investigator
Huang Zhijun	Attending Doctor	Hsiang-ya third hospital clinical pharmacology center	Investigator
Yi Bin	Attending Doctor	Hsiang-ya third hospital kidney rheumatism and immunology department	Investigator
Yang Xiaoyan	Doctor	Hsiang-ya third hospital clinical pharmacology center	Statistics
Tan Benteng	Associate Chief Doctor	Hunan brain department hospital clinical trial institution	Investigator
Xu Junying	Associate Chief Doctor	Hunan brain department hospital 36 ward	Investigator
Zhang Haitao	Attending Doctor	Hunan brain department hospital 13 ward	Investigator
Liu Wei	Doctor	Hunan brain department hospital 13 ward	Investigator

### 7. Attachment

**Attachment 1:** Test result for capillary blood sample

**Attachment 2:** Test result for venous blood sample

Attachment 1: Capillary whole blood test result

No.	Name	Gender	Safe AQ UG Result (mmol/L)	J&J Product Result (mmol/L)
1	PSL	F	9.50	9.3
2	YJG	F	7.40	7.7
3	TWH	F	6.2	6.1
4	LLC	F	5.4	5.3
5	HYH	M	6.4	6.5
6	YSH	M	13.2	14.8
7	CXW	M	7.9	8.2
8	HZG	M	5.8	5.8
9	LQZ	F	7.3	6.6
10	HSG	M	11.8	11.5
11	HFX	F	7.5	7.5
12	LYY	F	11	11.8
13	CZM	F	6.6	6.5
14	ZRM	M	7.3	7.0
15	ZJW	M	10.7	9.4
16	LLS	M	6.2	6.0
17	WXL	F	7.3	7.1
18	YXM	F	11.8	12.3
19	LYQ	F	7.8	7.1
20	TYR	M	7.2	6.5
21	LXL	F	7.5	7.2
22	ZZM	F	9.9	9.1
23	PCL	M	6.4	6.4
24	GPR	F	10.1	9.7
25	YYF	F	10.3	11.1
26	SGY	F	7.4	7.1
27	YXM	F	6.2	6.3
28	GZX	F	10.1	8.4
29	JXW	M	7.2	7.1
30	YYT	F	14.6	14.1
31	LLK	M	13.2	11.7
32	YYZ	F	5.3	5.1

33	LZH	M	10.3	8.9
34	WMZ	F	6.5	6.4
35	XJF	M	13.0	13.1
36	WYS	M	8.7	8.2
37	YCZ	F	5.3	5.2
38	CGX	F	12.5	12.3
39	DBL	F	8.8	8.6
40	JAQ	F	13.2	14.4
41	YXG	M	8.4	8.6
42	LYL	F	15.0	15.7
43	LYL	F	10.8	11.0
44	TJH	F	8.5	8.9
45	ZPS	M	10.4	9.2
46	LSL	F	6.7	6.5
47	LXK	M	4.3	4.4
48	JYY	F	9.5	8.3
49	YTX	F	8.9	8.6
50	ZAH	F	6.6	6.8
51	HHQ	F	9.6	10.0
52	MZQ	M	4.4	4.3
53	ZSF	F	6.0	6.1
54	LZX	M	6.4	6.8
55	HZY	F	11.0	9.5
56	ZZK	F	9.8	10.5
57	WGY	F	7.2	7.0
58	CSX	M	5.9	5.6
59	LYT	M	7.5	7.4
60	LAM	M	6.3	6.7
61	CQY	M	8.3	8.9
62	PJP	M	6.9	7.3
63	WYL	F	9.0	9.7
64	JYY	F	14.4	13.6
65	WJL	F	11.0	11.2
66	WWC	M	15.6	16.7
67	ZHY	F	16.1	18.2
68	XS	F	4.5	4.2

69	WQ	F	6.2	6.2
70	GLF	F	4.6	4.2
71	YCZ	F	4.6	4.1
72	YML	F	5.2	5.2
73	WYH	F	6	4.4
74	ZXQ	F	4.4	4.3
75	YM	F	17	16.7
76	WQL	M	15.1	14.8
77	ZCS	F	17.8	18.9
78	ZJH	M	16.6	17
79	ZZH	M	16.5	16
80	HYJ	F	4	3.8
81	YYL	F	3.9	3.5
82	CMH	F	3.1	2.8
83	DJH	F	21.1	26.3
84	LY	F	2.6	2.5
85	WM	M	1.8	1.6
86	WJ	F	2.1	1.9
87	OY	F	2.2	2
88	ZF	F	23.9	26.8
89	FWL	F	15.8	18
90	WYL	M	3.4	3
91	LYJ	F	12.4	12.8
92	WJL	F	6.7	6.9
93	CWF	M	10.9	11.5
94	HYH	F	7.2	6.4
95	TJJ	M	6.5	6.6
96	HKM	F	12.3	12.8
97	MYE	F	4.3	4.3
98	MFR	M	15.3	15.5
99	WBL	M	18.2	18.5
100	GYD	F	9.5	9
101	SCN	M	7.9	7.5
102	MYM	F	6.6	6.8
103	HGL	F	5.2	5
104	YRQ	M	8.1	7.5

105	CST	M	6.1	5.9
106	FFJ	M	6.1	6
107	ZLC	F	6.9	7.1
108	HYB	M	5.2	5
109	YJZ	F	11.2	10.5
110	LAL	F	12.4	13.2
111	GPZ	F	6.3	5.9
112	LRS	M	7	6.5
113	LXC	F	11.1	10.6
114	HCY	M	8.4	7.6
115	XJL	F	8.4	7.9
116	YYL	F	11.8	10.9
117	LWS	M	5.7	5.3
118	XDH	F	7	7
119	LXG	M	11.3	10.5
120	CXY	M	3.8	3.8
121	LYP	F	5.1	5.3
122	WHA	M	6	6.6
123	PWX	F	9.9	7.9
124	WYL	F	11.8	11.8
125	LLH	F	5.8	5.9
126	TQY	M	9.1	9.5
127	GH	M	4.8	5.2
128	TZJ	M	16.1	15.9
129	LSP	F	7.1	7.4
130	CYM	M	5.7	5.7
131	XXN	F	6.4	6.6
132	LYS	F	5.8	6.3
133	DYY	F	5	5.7
134	LWH	M	9.4	9.4
135	WYC	F	15.8	17.7
136	PRY	F	7.3	7.4
137	XDY	M	6.3	8.2
138	LQY	F	9.3	10.3
139	WXF	M	4.9	6.1
140	NMY	F	7.8	7.4

141	LQG	M	8.4	8.2
142	WXM	F	10	10.5
143	LDY	F	7.6	7.7
144	XXF	M	5.6	6.1
145	YLY	F	6.8	7.2
146	LDF	F	4.2	4.3
147	PJZ	F	7.1	7.1
148	ZXX	F	5.5	4.8
149	DSJ	F	12.7	14.2
150	DQX	F	3.4	3.3
151	KZY	M	8.8	9.1
152	ZXL	M	14.1	15.4
153	DQY	F	18	19.1
154	HYQ	M	13.5	13.2
155	ZGL	F	11.8	12.2
156	DBE	F	13	12.8
157	LSR	F	12.7	12.1
158	MJK	M	10.8	10.7
159	YYH	F	10.1	10.1
160	WQL	M	13.1	14.5
161	HDM	M	19.6	19.8
162	ZGL	M	17.6	17.8
163	HYZ	M	17.5	17.3
164	CK	M	22.4	22.3
165	TLL	M	7.2	6.9
166	GNS	M	2.6	2.4
167	DDP	M	5	4.8
168	DFR	F	4.3	4.4
169	XXJ	F	4.3	4.4
170	OK	M	4.6	4.7
171	XG	M	18.5	18.1
172	XS	F	11	10.8
173	LR	F	11.8	12.1
174	LQL	F	11.2	11.3
175	DJY	F	19.8	19.6
176	GW	M	22	21

177	WYS	F	20	20.1
178	LH	F	2.2	2.2
179	HCH	F	4.3	4.2
180	HXM	F	3.9	3.8
181	ZQL	F	4.3	4.1
182	ZWX	F	4	3.8
183	LPT	F	7.5	7.2
184	PXL	F	2.6	1.9
185	WZB	F	2.8	2.4
186	ZC	F	1.3	1.8



## Attachment 2: Venous blood test result

No	Name	Gender	Hospital Result (mmol/L)	Safe AQ UG Result (mmol/L)
1	LYJ	F	11.77	11.6
2	WJL	F	6.62	6.7
3	CWF	M	11.65	11.3
4	HYH	F	6.44	6.3
5	TJJ	M	6.67	6.5
6	HKM	F	13.61	11.7
7	MFR	M	14.79	14.8
8	WBL	M	16.42	17.4
9	GYD	F	8.85	8.8
10	SCN	M	6.61	6.7
11	MYM	F	6.34	6.3
12	HGL	F	4.64	4.9
13	YRQ	M	6.74	6.9
14	CST	M	4.97	5.4
15	FFJ	M	5.43	6.1
16	ZLC	F	6.07	6.7
17	HYB	M	4.43	4.8
18	YJZ	F	8.86	9.5
19	LAL	F	10.9	10.9
20	GPZ	F	5.65	6.1
21	LRS	M	6.06	6.3
22	LXC	F	9.98	11.5
23	HCY	M	7.27	7.5
24	XJL	F	7.53	8.3
25	YYL	F	11.32	12.5
26	LWS	M	5.04	5.5
27	XDH	F	6.37	6.3
28	LXG	M	10.82	10.4
29	CXY	M	3.79	3.7
30	LYP	F	4.7	4.8
31	WHA	M	6.71	6.5

32	PWX	F	8.16	8
33	WYL	F	12.94	11
34	LLH	F	5.4	5.2
35	TQY	M	9.5	9.1
36	GH	M	5.32	4.6
37	TZJ	M	15.38	14.2
38	LSP	F	6.14	6.4
39	CYM	M	5.17	4.7
40	XXN	F	6.75	6.4
41	LYS	F	5.94	5.7
42	DYY	F	4.98	4.5
43	LWH	M	7.34	8.6
44	WYC	F	18.31	16
45	PRY	F	6.97	7.1
46	XDY	M	6.35	7
47	LQY	F	9.93	10.3
48	WXF	M	4.42	4.5
49	NMY	M	6.88	7.1
50	LQG	M	7.78	7.2
51	WXM	F	10.16	10.3
52	LDY	F	6.6	6.6
53	XXF	M	5.01	5.4
54	YLY	F	6.43	6
55	LDF	F	3.96	3.9
56	PJZ	F	7.21	6.8
57	ZXX	F	4.89	4.9
58	DSJ	F	14.22	13.1
59	DQX	F	3.29	3.5
60	KZY	M	8.47	8.4
61	ZXL	M	15.26	14.9
62	DQY	F	18.24	17.3
63	HYQ	M	11.25	10.8
64	ZGL	F	11.23	9.9

65	DBE	F	12.87	12.3
66	LSR	F	10.73	11
67	MJK	M	9.39	9.1
68	YYH	F	9.65	9.8
69	WQL	M	14.16	13.6
70	HDM	M	17.48	18.1
71	ZGL	M	15.58	16.8
72	HYZ	M	15.12	17.7
73	CK	M	24.76	20.5
74	TLL	M	6.82	6.7
75	GNS	M	2.18	2.3
76	DDP	M	4.63	4.6
77	DFR	F	4.33	4.5
78	XXJ	F	3.96	4.2
79	OK	M	4.36	4.9
80	XG	M	17.16	17.1
81	XS	F	11.3	13
82	LR	F	11.17	12.8
83	LQL	F	11.14	13.2
84	DJY	F	19.12	18.8
85	GW	M	20.06	20
86	WYS	F	20.04	19.8
87	LH	F	2.06	2
88	RWD	M	25.5	25
89	JX	M	26.51	26.3
90	SB	M	26.88	23.9
91	LJJ	F	22.23	20.4
92	PC	M	25.77	26
93	LM	M	4.19	4.5
94	GXX	F	3.74	4.1
95	LKM	M	4.22	4.7
96	ZHB	M	3.88	4.1
97	YHQ	M	3.62	3.8

98	LWD	M	3.81	3.9
99	XL	F	4.08	4.3
100	WTY	M	4.23	4.4
101	HWB	M	4.01	4.3
102	ZB	M	4.18	4.3
103	LZQ	F	3.76	3.8
104	TMZ	M	3.22	2.9
105	LCM	M	1.97	2.2
106	YJX	M	3.99	4.3
107	ZYZ	F	4.2	4.7
108	HSE	F	18.6	20.6
109	YJP	F	7.63	8.2
110	FQ	F	7.31	7.6
111	YJL	F	6.89	8
112	GXC	F	9.23	10.2
113	XZ	M	11.1	12.3
114	LXX	M	8.17	9.6
115	WDL	F	17.84	18
116	JF	M	2.59	2.6
117	PML	F	9.74	9.9
118	YJG	F	8.84	7.5
119	TWH	F	5.99	6.2
120	LLC	F	4.62	5
121	HYH	M	6.53	6.1
122	YSH	M	15.3	13.8
123	CXW	M	8.51	7.6
124	HZG	M	6.47	5.9
125	LQZ	F	7.23	6.4
126	HSG	M	14.55	11.2
127	HFX	F	7.39	6.7
128	LYY	F	12.13	10.7
129	CZM	F	6.47	7
130	ZRM	M	6.2	6.8

131	ZJW	M	11.31	9.3
132	LLS	M	5.99	5.8
133	WXL	F	6.59	6.9
134	YXM	F	12.15	10.3
135	LYQ	F	7.53	6.9
136	TYR	M	7.32	6.7
137	LXL	F	7.47	6.8
138	ZZM	F	9.52	9.2
139	PCL	M	6.74	6.4
140	GPR	F	9.87	9.6
141	YYF	F	11.25	10.7
142	SGY	F	6.9	7.3
143	YXM	F	6.44	6.5
144	GZX	F	9.11	9
145	JXW	M	6.99	6.5
146	YYT	F	14.22	14.1
147	LLK	M	12.76	11.4
148	YYZ	F	5.3	5.2
149	LZH	M	9.24	9
150	WMZ	F	6.11	6.4
151	XJF	M	12.92	13.4
152	WYS	M	7.28	8.6
153	YCZ	F	5.15	5.1
154	CGX	F	11.16	12.1
155	DBL	F	8.62	8.4
156	JAQ	F	15.31	13
157	YXG	M	8.14	7.9
158	LYL	F	14.56	12.3
159	LYL	F	9.63	10.3
160	TJH	F	8.57	8.8
161	ZPS	M	9.61	8.7
162	LSL	F	5.85	6.3
163	LXK	M	4.15	4.5

164	JYY	F	9.36	8.6
165	YTX	F	8.39	8.1
166	ZAH	F	6.64	6.7
167	HHQ	F	9.61	9.7
168	MZQ	M	4.23	4.2
169	ZSF	M	6.04	5.9
170	LZX	M	6.43	6.6
171	HZY	F	8.73	8.4
172	ZZK	F	10.6	9.3
173	WGY	F	5.76	5.6
174	CSX	M	5.12	5.1
175	LYT	M	7.79	8
176	LAM	M	5.89	6.3
177	CQY	M	8.48	8.3
178	PJP	M	6.75	6.3
179	WYL	F	9.49	8.6
180	JYY	F	13.65	12.4
181	WJL	F	10.95	9.8
182	WWC	M	18.93	15.7
183	ZHY	F	11.75	12.4
184	XS	F	4.06	4.5
185	WQ	F	4.74	5
186	GLF	F	4.29	4.6
187	YC	F	3.85	4.6
188	YML	F	4.92	4.5
189	WYH	F	4.3	4.9
190	ZXQ	F	4.25	4.8
191	YM	F	15.53	16
192	WQL	M	14.4	15.9
193	ZCS	F	19.55	16.3
194	ZJH	M	17.46	15.4
195	ZZH	M	15.59	16.2
196	WJ	M	3	3.3
197	HX	M	4.1	3.8
198	LSD	M	4	4.3

199	LLY	M	4.2	4.5
200	GT	F	4.1	4.7
201	XXM	M	4	3.5
202	HHH	M	2.24	2.4
203	ZYQ	F	3.7	4.2